



# SEQUENCE LISTING

<110> Kazemi-Esfarjani, Parsa  
Benzer, Seymour

<120> AN ANIMAL MODEL OF POLYGLUTAMINE  
TOXICITY, METHODS OF USE, AND MODULATORS OF POLYGLUTAMINE  
TOXICITY

<130> 06618-686001

<140> US 09/639,207

<141> 2000-08-14

<150> US 60/148,934

<151> 1999-08-12

<150> US 60/148,933

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<150> US 60/177,047

<151> 2000-01-18

<150> US 60/205,720

<151> 2000-05-19

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 Leu Asp Asp Ser Phe Val Arg Gly His Leu Arg Glu Gly Lys Cys His



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<223> n = A,T,C or G

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cttcgcatgg cacgcttttt tccgtgtgct cggttcggtc ggccatacaa aacacaaaat      60
tcaagtttaa aaactaaata ggcaactaaa aggggaagccg cagcgaataa agtgatttgc      120
tgaaagagac gtaagaaagt taatcgcatc gaaggcacca gaaatcgggg atttctaaca      180
cggcgcgctg gcgacgtaca tacatacgca agcgcacaca cacacgaaca attacttgcc      240
attgacgcan aagcgaaaag cagtgaataa aagg                                     274

<210> 18
<211> 565
<212> DNA
<213> Drosophila

<400> 18
cttcgcatgg cacgcttttt tccgtgtgct cggttcggtc ggccatacaa aacacaaaat      60
tcaagtttaa aaactaaata ggcaactaaa aggggaagccg cagcgaataa agtgatttgc      120
tgaaagagac gtaagaaagt taatcgcatc gaaggcacca gaaatcgggg atttctaaca      180
cggcgcgctg gcgacgtaca tacatacgca agcgcacaca cacacgaaca attacttgcc      240
attgacgcaa aagcgaaaaa gcagtggaat aaagggggaat tgacaaataa caacgttttg      300
caagcactgg actctggctg ctggtgttct ttcattttgt aattgccacg catggacgac      360
gaagtaattg aaattagcga cagcgaacgc gaagaaacct catcgaaactc cgaaatggat      420
gtggaaataa cgacagaaca gccaacatc gatgtcaaag cagagcaaat tgtgcccaag      480
gacgcggcaa ccattgccga ggagaagaag aaactgggca acgaccaata caaggcgacg      540
aactatcaga atgcactcaa gctct                                           565

<210> 19
<211> 679
<212> DNA
<213> Drosophila

<220>
<221> misc_feature
<222> (1)...(679)
<223> n = A,T,C or G

<400> 19
ctacttcgca tggcacgctt ttttccgtgt gctcgggttcg ttcggccata caaaacacaa      60
aattcaagtt taaaaactaa ataggcaact aaaaggggaag ccgcagcgaa taaagtgatt      120
tgctgaaaga gacgtaagaa agttaatcgc atcgaaggca ccagaaatcg gggatttcta      180
acacggcgcg cgtgcgacgt acatacatac gcaagcgcac acacacacga acaattactt      240
gccattgacg caaaagcgaa aaagcagtgg aataaagggg aattgacaaa taacaacggt      300
ttgcaagcac tggactctgg tcgctggtgt tctttcattt tgtaattgcc acgcatggac      360
gacgaagtaa ttgaaattag cgacagcgaa cgcgaaagaaa cctcatcgaa ctccgaaatg      420
gatgtggaaa taacgacaga acagccaacc atcgatgtca aagcagagca aattgtgcc      480
aaggacgcgg caaccattgc cgaggagaag aagaaactgg gcaacgacca atacaaggcg      540
cagaactatc agaatgcact caagctctac acggatgcc a tatcgctgtg tccggactcg      600
gcggcatact atggcaatcg ggccgnctgc tacatgatgc tgctcaacta taatagcgcc      660
ctgaccgacg cccgacacg                                           679

<210> 20
<211> 529

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<212> DNA  
<213> Drosophila

<400> 20  
actacttgcg atggcacgct tttttccgtg tgctcggttc gttcggccat acaaaacaca 60  
aaattcaagt ttaaaaaact aataggcaac taaaaggga gccgcagcga gataaagtga 120  
tttgctgaaa gagacgtaag aaagttaatc gcatcgaagg caccagaaat cggggatttc 180  
taacacggcg cgcgtgcacg tagcatacat acgcaagcgc acacacacac gaacaattac 240  
ttgccattga cgcaaaaagcg aaaaagcagt ggaataaagg ggaattgaca aataacaacg 300  
ttttgcaagc actggactct ggtcgtggtt gttctttcat tttgtaattg ccacgcatgg 360  
acgacgaagt aattgaaatt agcgacagca tacgggatga aacctcatcg aactccgaaa 420  
tggatgtgga aataacgaca gaacagccaa ccacgatgtg caaagcagag caaattgtgc 480  
ccaaggacgc ggcaaccatt gccgaggaga agaagatact gggcaacga 529

<210> 21  
<211> 783  
<212> DNA  
<213> Drosophila

<220>  
<221> misc\_feature  
<222> (1)...(783)  
<223> n = A,T,C or G

<400> 21  
cactacttcg catggcacgc tttttccgtg gtgctcggtt cgttcggcca tacaaaacac 60  
aaaattcaag tttaaaaact aaataggcaa ctaaaaggga agccgcagcg aataaagtga 120  
tttgctgaaa gagacgtaag aaagttaatc gcatcgaagg caccagaaat cggggatttc 180  
taacacggcg cgcgtgcgac gtacatacat acgcaagcgc acacacacac gaacaattac 240  
ttgccattga cgcaaaaagcg aaaaagcagt ggaataaagg ggaattgaca aataacaacg 300  
ttttgcaagc actggactct ggtcgtggtt gttctttcat tttgtaattg ccacgcatgg 360  
acgacgaagt aattgaaatt agcgacacgn acgcgaagaa acctcatcga actccgaaat 420  
ggatgtggaa ataacgacag aacagccaac catcgatgtc aaagcagagc aaattgtgcc 480  
caaggacgcg gcaaccattg ccgaggagaa gaagaaactg ggcaacgacc aatacaaggc 540  
gcagaactat cagaatgcac tcaagctcta cacggatgcc atatcgctgt gtccggactc 600  
ggcggcatac tatggcaatc gggccgctg ctacatgatg ctgctcaact ataatagcgc 660  
cctgaccgac gcccgcacag ccatacgcac cgatccgggc ttcgagaagg cctacgtccg 720  
tgtggccaag tgctgtcttg ccctgggcga cattattggc ccgaacaggc cgtcaaaatg 780  
ggt 783

<210> 22  
<211> 677  
<212> DNA  
<213> Drosophila

<400> 22  
ttccaccact acttcgcatt gcacgctttt ttccgtgtgc tcggttcggt cggccataca 60  
aaacacaaaa ttcaagttta aaaactaaat gggcaactaa aagggaagcc gcagcgaata 120  
aagtgatttg ctgaaagaga cgtaagaaag ttaatcgcat cgaaggcacc agaaatcggg 180  
gatttctaac acggcgcgcg tgcgacgtac atacatacgc aagcgcacac acacacgaac 240  
aattacttgc cattgacgca aaagcgaaaa agcagtgga taaaggggaa ttgacaaata 300  
acaacgtttt gcaagcactg gactctggtc gctggtgttc ttctattttg taattgccac 360  
gcatggacga cgaagtaatt gaaattagcg acagcgaacg cgaagaaacc tcatcgaact 420  
ccgaaatgga tgtggaaata acgacagaac agccaacat cgatgtcaaa gcagagcaaa 480  
ttgtgcccaa ggacgcggca accattgccg aggagaagaa gaaactgggc aacgaccaat 540  
acaaggcgca gaaactatcag aatgcaactca agctctacac ggatgccata tcgctgtgtc 600  
cggactcggc ggcatactat ggcaatcggg ccgcctgcta catgatgctg ctcaactata 660  
atagcgcctt gaccgac 677

<210> 23  
<211> 386

<212> DNA  
<213> Drosophila

<400> 23  
aactacttgc catggcacgc ttttttccgt gtgtcgggtt cgttcggcca tacaaaacac 60  
aaaattcaag tttaaaaact aaataggcaa ctaaaaggga agccgcagcg aataaagtga 120  
tttgctgaaa gagacgtaag aaagttaatc gcatcgaagg caccagaaat cggggatttc 180  
taacacggcg cgcgtgcgac gtacatacat acgcaagcgc acacacacac gaacaattac 240  
ttgccattga cgcaaaagcg aaaaagcagt ggaataaagg ggaattgaca aataacaacg 300  
ttttgcaagc actggactct ggtcgtctgt gttctttcat tttgtaattg ccacgcgatg 360  
acgacgaagt aattgaaatt agcgac 386

<210> 24  
<211> 537  
<212> DNA  
<213> Drosophila

<220>  
<221> misc\_feature  
<222> (1)...(537)  
<223> n = A,T,C or G

<400> 24  
tttaacacaa atctcccatg atttattaat gttgccgaaa aaaaaatcca agaaagaaca 60  
tttaaaaatg tgaacttaca ctggaaaattt agttgcatta ttttgattta gaatattttt 120  
tcaataaact tggcatatat tcattcgtta acataatcan aatgtggtat tttcttgctt 180  
tttgaaaaag anatatgtan aagagttcaa aatttgtgcg ctgctgtatg ttggtttcgg 240  
atgaggcaga aagtatggga ttgagatggt cttcttctct gtggtggtga acaacactcg 300  
ttgggatcct agaactcaaa gttgaacgat gaattattcc ggccaccgcc gttgaattgg 360  
aagaatgtgc ggaacatttg attcggatcg aagtcggctt gctcctgctc ctcgatatcc 420  
tgcccgctgt cgtagcgcga cttcttgtga gcatccgaca gtatggcgta cgcctcgccc 480  
acctccttga acttgagctc ctctcctctg cgctcctcgg cactgctgtt tgcgtgt 537

<210> 25  
<211> 570  
<212> DNA  
<213> Drosophila

<220>  
<221> misc\_feature  
<222> (1)...(570)  
<223> n = A,T,C or G

<400> 25  
tttttccgtg tgctcgggtc gttcggccat aaaaaacaca aaattcaagt ttaaaaacta 60  
aataggcaac taaaaggga gccgcagcga ataaagtgat ttgctgaaag agacgtaaga 120  
aagttaatcg catcgaaggc accagaaatc ggggatttct aacacggcgc gcgtagcgacg 180  
tacatacata cgcaagcgca cacacacacg aacaattact tgccattgac gcaaaagcga 240  
aaaagcagtg gaataaaggg gaattgacaa ataacaacgt tttgcaagca ctggactctg 300  
gtcgtctggtg ttctttcatt ttgtaattgc cagcatgga cgacgaagta attgaaatta 360  
gcgacagcac cgcgcagaaa cctcatcgaa ctccgaaatg gatgtggaat taacgacaga 420  
acagccaacc atcgatgtca aagcagagca nattgtgctc aaggacgcgg caaccattgc 480  
cgaggagaag aagaaactgg gcaacgacca atacaaggcg cagaactatc agaatgcact 540  
caagctctac acggatgcc aatcgctgtg 570

<210> 26  
<211> 688  
<212> DNA  
<213> Drosophila

<400> 26



cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcacgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaa	gggaattgac	aaataacaac	gttttgcaag	caactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgacagc	gaacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	aaataacgac	420
agaacagcca	accatcgatg	tcaaagcaga	gcaaattgtg	cccaaggacg	cggcaaccat	480
tgccgaggag	aagaagaaac	tgggcaacga	ccaatacaag	gcgcagaact	atcagaatgc	540
actcaagctc	tacacggatg	ccatatcgct	gtgtccggac	tcggcggcgcat	actatggcaa	600
tcggggccgcc	tgctacatga	tgctgctcaa	ctataatagc	gccctgaccg	acgcccgcga	660
cgccatacgc	atcgatccgg	gcttcgag				688

<210> 27  
 <211> 531  
 <212> DNA  
 <213> Drosophila

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcacgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaa	gggaattgac	aaataacaac	gttttgcaag	caactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgacagc	gaacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	aaataacgac	420
cgaacagcca	accatcgatg	tcaaagcaaa	acaaattgtg	cccaaggacg	cggcaaccat	480
tgccgaggag	aagaagaaac	tgggctacga	ccaatacaag	gcgcagaact	a	531

<210> 28  
 <211> 479  
 <212> DNA  
 <213> Drosophila

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcacgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaa	gggaattgac	aaataacaac	gttttgcaag	caactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgacagc	ggacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	aaataacgac	420
agaacagcca	accatcgatg	tcaaagcaga	gcaaattgtg	ccccaggacg	cggcaacca	479

<210> 29  
 <211> 367  
 <212> DNA  
 <213> Drosophila

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcacgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaa	gggaattgac	aaataacaac	gttttgcaag	caactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgac						367

<210> 30  
 <211> 506  
 <212> DNA

<213> Drosophila

<220>

<221> misc\_feature

<222> (1)...(506)

<223> n = A,T,C or G

<400> 30

acgctttttt	ccgtgtgctc	ggttcgttcg	gccatacaaa	acacaaaatt	caagttttaa	60
aactaaatag	gcaactaaaa	gggaagccgc	agganataaa	gtgatttgct	gaaagagacg	120
taagaaagtt	aatcgcatcg	aaggcaccag	aaatcgggga	tttctaacac	ggcgcgcgtg	180
gacgtacata	catacgcaag	cggcacacac	acacgaacaa	ttacttgcca	ttgacgcaaa	240
agcgaaaaag	cagtgggaata	aaggggaatt	gacaaataac	aacgttttgc	aagcactgga	300
ctctggctgc	tggtgttctt	tcattttgta	attgccacgc	atggacgacg	aagtaattga	360
aattagcgac	aggancgcgn	agaaacctca	tcgaactccg	aaatggatgt	ggaaataacg	420
acagaacagc	caaccatcga	tgtcaaagca	gagcaaattg	tgccaagga	cgcggcaacc	480
attgccgagg	agaagaagaa	actggg				506

<210> 31

<211> 370

<212> DNA

<213> Drosophila

<400> 31

gcacgctttt	ttccgtgtgc	tcggttcggt	cggccataca	aaacacaaaa	ttcaagttta	60
aaaactaaat	aggcaactaa	aagggaagcc	gcagcgaata	aagtgatttg	ctgaaagaga	120
cgtaagaaag	ttaatcgcat	cgaaggcacc	agaaatcggg	gatttctaac	acggcgcgcg	180
tgcgacgtac	atacatagc	aagcgcacac	acacacgaac	aattacttgc	cattgacgca	240
aaagcgaaaa	agcagtggaa	taaaggggaa	ttgacaaata	acaacgtttt	gcaagcactg	300
gactctggtc	gctggtgttc	tttcattttg	taattgccac	gcatggacga	cgaataattg	360
aaattagcga						370

<210> 32

<211> 377

<212> DNA

<213> Drosophila

<400> 32

cacgcttttt	tccgtgtgct	cggttcgttc	ggccatacaa	aacacaaaat	tcaagtttaa	60
aaactaaata	ggcaactaaa	aggggaagcc	cagcgaataa	agtgatttgc	tgaaagagac	120
gtaagaaagt	taatcgcatc	gaaggcacca	gaaatcgggg	atttctaaca	cggcgcgcgt	180
gcgacgtaca	tacatacgca	agcgcacaca	cacacgaaca	attacttgcc	attgacgcaa	240
aagcgaaaaa	gcagtggaat	aaaggggaat	tgacaaataa	caacgttttg	caagcactgg	300
actctggctc	ctggtgttct	ttcattttgt	aattgccacg	catggacgac	gaagtaattg	360
agattagcga	ccgcac					377

<210> 33

<211> 691

<212> DNA

<213> Drosophila

<400> 33

catggcacgc	ttttttccgt	gtgctcggtt	cgttcggcca	tacaaaacac	aaaattcaag	60
tttaaaaact	aaataggcaa	ctaaaaggga	agccgcagcg	aataaagtga	tttgctgaaa	120
gagacgtaag	aaagttaatc	gcacggaagg	caccagaaat	cggggatttc	taacacggcg	180
cgcgtgcgac	gtacatacat	acgcaagcgc	acacacacac	gaacaattac	ttgccattga	240
cgcaaaagcg	aaaaagcagt	ggaataaagg	ggaattgaca	aataacaacg	ttttgcaagc	300
actggactct	ggtcgctggt	gttctttcat	tttgtaattg	ccacgcatgg	acgacgaagt	360
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aataacgaca	gaacagccaa	ccatcgatgt	caaagcagag	caaattgtgc	ccaaggacgc	480
ggcaaccatt	gccgaggaga	agaagaaact	gggcaacgac	caatacaagg	cgcagaacta	540

tcagaatgca	ctcaagctct	acacggatgc	catatcgctg	tgtccggact	cggcggcata	600
ctatggcaat	cgggccgcct	gctacatgat	gctgctcaac	tataatagcg	ccctgaccga	660
cgcccgcac	gccatacgca	tcgatccggg	c			691

<210> 34  
 <211> 635  
 <212> DNA  
 <213> Drosophila

<400> 34						
gcacgctttt	ttccgtgtgc	tcggttcggt	cggccatata	aaacacaaaa	ttcaagttaa	60
aaaactaaat	aggcaactaa	aagggaagcc	gcagcgacat	aaagtgattt	gctgaaagag	120
acgtaagaaa	gttaatcgca	tcgaaggcac	cagaaatcgg	ggatttctaa	cacggcgcg	180
gtggacgtac	atacatagc	aagcgcacac	acacacgaac	aattacttgc	cattgacgca	240
aaagcaaaaa	gcagtgggaat	aaagggggaat	tgacaaaata	caacgttttg	caagcactgg	300
actctgggtcg	ctgggtgttct	ttcattttgt	aattgccacg	catggacgac	gaagtaattg	360
aaattagcga	cagtaccgcg	cagaaacctc	atcgaactcc	gaaatggatg	tggaaataac	420
gacagaacag	ccaaccatcg	atgtcaaagc	agagcaaatt	gtgcccaagg	acgcggcaac	480
cattgccgag	gagaagaaga	aactgggcaa	cgaccaatac	aaggcgcaga	actatcagaa	540
tgcaactcaag	ctctacacgg	atgccatata	gctgtgtccg	gactcggcgg	catactatgg	600
caatcggggcc	gcctgctaca	tgatgtgtgct	caact			635

<210> 35  
 <211> 589  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature  
 <222> (1)...(589)  
 <223> n = A,T,C or G

<400> 35						
gcatggcacg	cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaaca	caaaattcaa	60
gtttaaaaaac	taaataaggca	actaaaaagg	aagccgcagc	gaataaaagt	atttgctgaa	120
agagacgtaa	gaaagttaat	cgcacgaag	gcaccagaaa	tcggggattt	ctaacacggc	180
gcgcgtgcga	cgtacatata	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	240
acgcaaaaagc	gaaaaagcag	tggaataaag	gggaattgac	aaataacaac	gttttgcaag	300
cactggactc	tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	360
taattgaaat	tagcgacagc	anacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	420
aaataacgac	agaacagcca	accatcgatg	tcaaaagcaga	gcaaattgtg	cccaaggacg	480
cggaaccat	tgccgaggag	aagaagaaac	tgggcaacga	ccaatacaag	gcgcagaact	540
atcagaatgc	actcaagctc	tacacggatg	ccatatcgct	gtgtccgga		589

<210> 36  
 <211> 566  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature  
 <222> (1)...(566)  
 <223> n = A,T,C or G

<400> 36						
atatgtatat	ttctgtttat	ttaacacaaa	tctcccatga	tttattaatg	ttgccgaaaa	60
aaaaaatcca	agaaagaaca	tttaaaaatg	tgaacttaca	ctggaaattt	agttgcatta	120
ttttgattta	aaatatTTTT	tcaataaact	tggcatatat	tcattcgtaa	acataatcaa	180
aatgtggtat	tttcttgctt	tttgaaaaag	aaatatgtaa	aagagttcaa	aattttgtgcg	240
ctgctgtatg	ttggtttccg	atgaggcaga	aagtatggga	ttgagatggt	cttcttctct	300
gtggtggtga	acaacactcg	ttgggatcct	agaactcaaa	gttgaacgat	gaattattcc	360

ggccaccgcc	gttgaattgg	aagaatgtgc	ggaacatttg	attcggatcg	aagtcggctt	420
gctcctgctc	ctcgatatcc	tggccgctgt	cgtancgcga	cttcttgtga	gcacccgaca	480
gtatggcgta	cgctcgcgcc	acctccttga	acttgagctc	ctcctccttg	cgctcctcgg	540
cactgctggt	tgcgtgtcga	tccgga				566

<210> 37  
 <211> 589  
 <212> DNA  
 <213> Drosophila

<400> 37						
aactatcaga	atgcactcaa	gctctacacg	gatgccatat	cgctgtgtcc	ggactcggcg	60
gcatactatg	gcaatcgggc	cgctcgtctac	atgatgctgc	tcaactataa	tagcgccttg	120
accgacgccc	gacacgccat	acgcacgcgt	ccgggcttcg	agaaggccta	cgcccggttg	180
gccaaagtgt	gtctggccct	ggcgacatt	attggcaccg	aacaggccgt	caaaatggtc	240
aacgagctga	attcgcttag	cacggctggt	gctgccgaac	agacggcggc	gcaaaagtgt	300
cgccaatttg	aggccaccat	tcaggcgaac	tacgatacga	aatcctatcg	caatgtggtc	360
ttctattttg	atagtgcctt	gaaattggcg	cccgcctggt	tgaaatatcg	tctactcaag	420
gctgagtgcc	ttgcattttt	ggggcgatgt	gatgaggcct	tggacattgc	ggtcagtgtg	480
atgaaactgg	ataccacatc	ggcggatgcg	atatacgtga	gaggtctgtg	cctgtactac	540
acggacaacc	tggacaaggg	aattcttcat	ttcgagcgcg	ccctgacct		589

<210> 38  
 <211> 654  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature  
 <222> (1)...(654)  
 <223> n = A,T,C or G

<400> 38						
aaactgggca	acgaccaata	caaggcgag	aactatcaga	atgcactcaa	gctctacacg	60
gatgccatat	cgctgtgtcc	ggactcggcg	gcatactatg	gcaatcgggc	cgctcgtctac	120
atgatgctgc	tcaactataa	tagcgccttg	accgacgccc	gacacgccat	acgcacgcgt	180
ccgggcttcg	agaaggccta	cgcccggttg	gccaaagtgt	gtctggccct	ggcgacatt	240
attggcaccg	aacaggccgt	caaaatggtc	aacgagctga	attcgcttag	cacggctggt	300
gctgccgaac	agacggcggc	gcaaaagtgt	cccaanttgg	aggccaccat	tcaggcgaac	360
tacgatacga	aatcctatcg	caatgtggtc	ttctatttgg	atagtgcctt	gaaattggcg	420
ccgcacgtgt	tgaaatatcg	tctactcaag	gctgagtgcc	ttgcattttt	ggggcgatgt	480
gatgaggcct	tggacattgc	ggtcagtgtg	atgaaactgg	ataccacatc	ggcggatgcg	540
atatacgtga	gaggtctgtg	cctgtactac	acggacaacc	tggacaaggg	aattcttcat	600
ttcgagcgcg	ccctgacct	cgacccggac	cactaccagt	ccaagcagat	gcgc	654

<210> 39  
 <211> 631  
 <212> DNA  
 <213> Drosophila

<400> 39						
acgacagaac	agccaaccat	cgatgtcaaa	gcagagcaaa	ttgtgcccaa	ggacgcggca	60
accattgccg	aggagaagaa	gaaactgggc	aacgaccaat	acaaggcgca	gaactatcag	120
aatgcactca	agctctacac	ggatgccata	tcgctgtgtc	cggactcggc	ggcatactat	180
ggcaatcggg	ccgcctgcta	catgatgctg	ctcaactata	atagcgcctt	gaccgacgcc	240
cgacacgcca	tacgcacgca	tccgggcttc	gagaaggcct	acgtccgtgt	ggccaaagtgc	300
tgtctggccc	tgggcgacat	tattggcacc	gaacaggccg	tcaaaatggt	caacgagctg	360
aattcgctta	gcacggctgt	tgctgccgaa	cagacggcgg	cgcaaaagt	gcgccaattg	420
gaggccacca	ttcaggcgaa	ctacgatac	aaatcctatc	gcaatgtggt	cttctattttg	480
gatagtgcct	tgaaattggc	gcccgcctgt	ttgaaatatc	gtctactcaa	ggctgagtg	540
cttgcatttt	tggggcgatg	tgatgaggcc	ttggacattg	cggtcagtgt	aatgaaactg	600

gataccacat cggcggatgc gatatacgtg a

631

<210> 40  
<211> 562  
<212> DNA  
<213> Drosophila

<400> 40  
acgacagaac agccaaccat cgatgtcaaa gcagagcaaa ttgtgcccac ggacgcggca 60  
accattgccg aggagaagaa gaaactgggc aacgaccaat acaaggcgca gaactatcag 120  
aatgcactca agctctacac ggatgccata tcgctgtgtc cggactcggc ggcatactat 180  
ggcaatcggg ccgcctgcta catgatgctg ctcaactata atagcgccct gaccgacgcc 240  
cgacacgcca tacgcatcga tccgggcttc gagaaggcct acgtccgtgt ggccaagtgc 300  
tgtctggccc tgggcgacat tattggcacc gaacaggccg tcaaaatggt caacgagctg 360  
aattcgctta gcacggctgt tgctgccgaa cagacggcgg cgcaaaagtt gcgccaattg 420  
gagggcacca ttcaggcgaa ctacgatacg aaatcctatc gcaatgtggt cttctatttg 480  
gatagtgcct tgaaattggc gccgcctgt ttgaaatata ggctactcaa agctgagtg 540  
cttgcatctt tggggcgatg tg 562

<210> 41  
<211> 541  
<212> DNA  
<213> Drosophila

<400> 41  
ccatacaaaa cacaaaattc aagtttaaaa actaaatagg caactaaaag ggaagccgca 60  
gcgaataaag tgatttgctg aaagagacgt aagaaagtta atcgcatcga aggcaccaga 120  
aatcggggat ttctaacacg gcgcgcgtgc gacgtacata catacgcaag cgcacacaca 180  
cacgaacaat tacttgccat tgacgcacaa gcgaaaaagc agtggaataa aggggaattg 240  
acaaataaca acgttttgca agcaactggac tctggctcgt ggtgttcttt cattttgtaa 300  
ttgccacgca tggacgacga agtaattgaa attagcgaca gcgaacgca agaaacctca 360  
tcgaactccg aaatggatgt ggaaataacg acagaacagc caaccatcga tgtcaaagca 420  
gagcaaattg tgccaagga cgcgcaacc attgccgagg agaagaagaa actgggcaac 480  
gaccaatata aggcgcagaa ctatcagaat gcaactcaagc tctacacgga tgccatatcg 540  
c 541

<210> 42  
<211> 561  
<212> DNA  
<213> Drosophila

<220>  
<221> misc\_feature  
<222> (1)...(561)  
<223> n = A,T,C or G

<400> 42  
ttcgttcggc catacaaaa acaaaattca agtttaaaaa ctaaataggc aactaaaagg 60  
gaagccgcag cgaataaagt gatttgctga aagagacgta agaaagttaa tcgcatcgaa 120  
ggcaccagaa atcggggatt tctaacacgg cgcgcggtgc acgtacatac atacgcaagc 180  
gcacacacac acgaacaatt acttgccatt gacgcacaaag cgaaaaagca gtggaataaa 240  
ggggaattga caaataacaa cgttttgcaa gcaactggact ctggctcgtg gtgttctttc 300  
atctttgtaat tgccacgcat ggacgacgaa gtaattgaaa ttagcgacag cancgcacag 360  
aaacctcatc gaactccgaa atggatgtgg aaataacgac agaacagcca accatcgatg 420  
tcaaagcaga gcaaattgtg cccaaggacg cggcaaccat tgccgaggag aagaagaaac 480  
tgggcaacga ccaatacaag gcgcagaact atcagaatgc actcaagctc tacacggatg 540  
ccatatcgct gtgtccggac t 561

<210> 43  
<211> 618  
<212> DNA

<213> Drosophila

<220>

<221> misc\_feature

<222> (1)...(618)

<223> n = A,T,C or G

<400> 43

ttcgttcggc	catacaaaac	acaaaattca	agttttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcggtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	gcactggact	ctggtcgctg	gtgttccttc	300
atthttgtaat	tgccacgcat	ggacgcagaa	gtaattgaaa	ttagcgacac	ganacgcgaa	360
gaaacctcat	cgaactccga	aatggatgtg	gaaataacga	cagaacagcc	aacctatgat	420
gtcaaagcag	agcaaattgt	gccaaggac	gcggcaacca	ttgccgagga	gaagaagaaa	480
ctgggcaacg	accaatacaa	ggcgcagaa	tatcagaatg	cactcaagct	ctacacggat	540
gccatatacg	tgtgtccgga	ctcggcggca	tactatggca	atcggggcgc	ctgctacatg	600
atgctgctca	actataat					618

<210> 44

<211> 582

<212> DNA

<213> Drosophila

<400> 44

ttcgttcggc	catacaaaac	acaaaattca	agttttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcggtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	gcactggact	ctggtcgctg	gtgttccttc	300
atthttgtaat	tgccacgcat	ggacgcagaa	gtaattgaaa	ttagcgacac	gaatcgcgaa	360
gaaacctcat	cgaactccga	aatggatgtg	gaaataacga	cagaacagcc	aacctatgat	420
gtcaaagcag	agcaaattgt	gccaaggac	gcggcaacca	ttgccgagga	gaagaagaaa	480
ctgggcaacg	accaatacaa	ggcgcagaa	tatcagaatg	cactcaagct	ctacacggat	540
gccatatacg	tgtgtccgga	ctcggcggca	tactatggca	at		582

<210> 45

<211> 550

<212> DNA

<213> Drosophila

<400> 45

ttcgttcggc	catacaaaac	acaaaattca	agttttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcggtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	gcactggact	ctggtcgctg	gtgttccttc	300
atthttgtaat	tgccacgcat	ggacgcagaa	gtaattgaaa	ttagcgacag	cgaacgcgaa	360
gaaacctcat	cgaactccga	aatggatgtg	gaaataacga	cagaacagcc	aacctatgat	420
gtcaaagcag	agcaaattgt	gccaaggac	gcggcaacca	ttgccgagga	gaagaagaaa	480
ctgggcaacg	accaatacaa	ggcgcagaa	tatcagaatg	cactcaagct	ctacacggat	540
gccatatacg						550

<210> 46

<211> 547

<212> DNA

<213> Drosophila

<220>

<221> misc\_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 46

ttcgttcggc	catacaaaaac	acaaaattca	agttttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcgtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaaag	cgaaaaagca	gtggaataaaa	240
ggggaattga	caaataacaa	cgttttgcaa	ggcactggac	tctggtcgct	ggtgttcttt	300
cattttgtaa	ttgccacgca	tggacgacga	agtaattgaa	attagcgaca	cganacgcga	360
agaaacctca	tcgaactccg	aaatggatgt	ggaaataacg	acagaacagc	caaccatcga	420
tgtcaaagca	gagcaaattg	tgcccaagga	cgcggcaacc	attgccgagg	agaagaagaa	480
actgggcaac	gaccaatata	aggcgagaa	ctatcagaat	gcactcaagc	tctacacgga	540
tgccata						547

<210> 47

<211> 487

<212> DNA

<213> Drosophila

<400> 47

tcggttcggt	cggccataca	aaacacaaaa	ttcaagttta	aaaactagat	aggcaactaa	60
aagggaagcc	gcagcgaata	aagtgatttg	ctgaaagaga	cgtaagaaag	ttaatcgcat	120
cgaaggcacc	agaaatcggg	gatttctaac	acggcgcgcg	tgcgacgtac	atacatacgc	180
aagcgcacac	acacacgaac	aattacttgc	cattgacgca	aaagcgaaaa	agcagtggaa	240
taaaggggaa	ttgacaaata	acaacgtttt	gcaagcactg	gactctggtc	gctggtgttc	300
tttcattttg	taattgccac	gcatggacga	cgaagtaatt	gaaattagcg	acagcagcgc	360
ggagaaacct	catcgaactc	cgaaatggat	gtggacataa	cgacagaaca	gccaaccatc	420
gatgtcaaag	cagagcggat	tgtgccaag	gacgcggcaa	ccattgccga	ggagaagaag	480
aaactgg						487

<210> 48

<211> 246

<212> DNA

<213> Drosophila

<400> 48

tgtgctcggt	tcgttcggcc	atacaaaaaca	caaaattcaa	gtttaaaaac	taaataggca	60
actaaaagg	aagccgcagc	gaataaaagt	atttgctgaa	agagacgtaa	gaaagttaat	120
cgcacgcaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	cgtacataca	180
tacgaacg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaaagc	gaaaaagcag	240
tggaat						246

<210> 49

<211> 170

<212> DNA

<213> Drosophila

<400> 49

ttttccgtgt	gctcggttcg	ttcgccata	caaaacacaa	aattcaagtt	taaaaactaa	60
ataggcaact	aaaagggaag	ccgcagcgaa	taaagtgatt	tgctgaaaga	gacgtaagaa	120
agttaatcgc	atcgaaggca	ccagaaatcg	gggatttcta	aaacggcgcg		170

<210> 50

<211> 511

<212> DNA

<213> Drosophila

<400> 50

ttttccgtgt	gctcggttcg	ttcgccata	caaaacacaa	aattcaagtt	taaaaactaa	60
ataggcaact	aaaagggaag	ccgcagcgaa	taaagtgatt	tgctgaaaga	gacgtaagaa	120

agttaatcgc	atcgaaggca	ccagaaatcg	gggatttcta	acacggcgcg	cgtgcgacgt	180
acatacatatc	gcaagcgcac	acacacacga	acaattactt	gccattgacg	caaaagcgaa	240
aaagcagtgg	aataaagggg	aattgacaaa	taacaacgtt	ttgcaagcac	tggactctgg	300
tcgctgggtg	tcttttcattt	tgttaattgcc	acgcatggac	gacgagtaat	tgaaattagc	360
gacagcatatc	gcgaagaaac	ctcatcgaa	tccgaaatgg	atgtggaaat	aacgacagaa	420
cagccaacca	tcgatgtcaa	agcagagcaa	attgtgcccc	aggacgcggc	aaccattgcc	480
gaggagaaga	agaaactggg	caacgaccaa	t			511

<210> 51  
 <211> 702  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature  
 <222> (1)...(702)  
 <223> n = A,T,C or G

<400> 51						
tttttcctg	tgctcggttc	gttcggccat	acaaaacaca	aaattcaagt	ttaaaaacta	60
aataggcaac	taaaaggga	gccgcagcga	nataaagtga	tttgctgaaa	gagacgtaag	120
aaagttaatc	gcatcgaagg	caccagaaat	cggggatttc	taacacggcg	cggtgacg	180
tacatacata	cgcaagcgca	cacacacacg	aacaattact	tgccattgac	gcaaaagcga	240
aaaagcagt	gaataaagg	gaattgacaa	ataacaacgt	tttgcaagca	ctggactctg	300
gtcgctggtg	ttctttcatt	ttgtaattgc	cacgcatgga	cgacgaagta	attgaaatta	360
gcgaccggan	cgcnagaaa	cctcatcgaa	ctccgaaatg	gatgtggaaa	taacgacaga	420
acagccaacc	atcgatgtca	aagcagagca	aattgtgccc	aaggacgcgg	caaccattgc	480
cgaggagaag	aagaaactgg	gcaacgacca	atacaaggcg	cagaactatc	agaatgcact	540
caagctctac	acggatgcc	tatcgctgtg	tcgggactcg	gcggcatact	atggcaatcg	600
ggcgcctgc	tacatgatgc	tgctcaacta	taatagcgcc	ctgaccgacg	cccgcacgc	660
catacgcatc	gatccgggct	tcgagaaggc	ctacgtccgt	gt		702

<210> 52  
 <211> 598  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature  
 <222> (1)...(598)  
 <223> n = A,T,C or G

<400> 52						
tttttcctg	tgctcggttc	gttcggccat	acaaaacaca	aaattcaagt	ttaaaaacta	60
aataggcaac	taaaaggga	gccgcagcga	ataaagtgat	ttgctgaaag	agacgtaaga	120
aagttaatcg	catcgaaggc	accagaaatc	ggggatttct	aacacggcg	gcgtgcgacg	180
tacatacata	cgcaagcgca	cacacacacg	aacaattact	tgccattgac	gcaaaagcga	240
aaaagcagt	gaataaagg	gaattgacaa	ataacaacgt	tttgcaagca	ctggactctg	300
gtcgctggtg	ttctttcatt	ttgtaattgc	cacgcatgga	cgacgaagta	attgaaatta	360
gcgacaggan	cgcnagaaa	cctcatcgaa	ctccgaaatg	gatgtggaaa	taacgacaga	420
acagccaacc	atcgatgtca	aagcagagca	aattgtgccc	aaggacgcgg	caaccattgc	480
cgaggagaag	aagaaactgg	gcaacgacca	atacaaggcg	cagaactatc	agaatgcact	540
caagctctac	acggatgcc	tatcgctgtg	tcgggactcg	gcggcatact	atggcaat	598

<210> 53  
 <211> 669  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature



<222> (1)...(669)

<223> n = A,T,C or G

<400> 53

acaaaaatgt	ctttatttcgg	agcgttcatg	ggtgatttcg	acgacgatct	cggccttatg	60
aacaaccaca	tgaaccacac	tatgaacgcg	atgaacatgc	agatgcgctc	gatgaatcgc	120
ctgatgaaca	gctttatgcc	cgatcccttc	atgcaggtct	cgccctttga	ccagggattc	180
cagcagaacg	ctctcatgga	gcgtccgcag	atgccggcca	tgccagccat	gggcctcttc	240
ggcatgcccc	nntgatgcca	caaactttta	tcgcccgttg	aacgctgata	ttggtggcaa	300
ttcaggcgca	tccttctgcc	agagcaccgt	gatgaccatg	tcacggggtc	ccgatgggcg	360
tcctcagatc	taccaggcca	gcactagtac	caaaacagga	ccgggaggcg	ttcgtgagac	420
ccgcaggacg	gtgcaggact	cgcgcaactg	ggtgaagaag	atggccattg	gtcatcacat	480
cggcgagcgg	gcacacatta	ttgagaaaga	gcaggacatg	cgctcaggac	aactggagga	540
gcgccaggag	ttcattaatc	tggaggaggg	agaagccgag	cagtttgaca	gggagtttac	600
atcgcgcgct	agtcgcggag	cgtgcagtca	agacatcatg	ctggtggcat	gcaggccatc	660
atgcccgc						669

<210> 54

<211> 563

<212> DNA

<213> Drosophila

<400> 54

agaaagccaa	cacaatccac	aaaaatgtct	ttattcggag	cgttgatggg	tgatttcgac	60
gacgatctcg	gccttatgaa	caaccacatg	aaccacacta	tgaacgcgat	gaacatgcag	120
atgcgctcga	tgaatcgctt	gatgaacagc	tttatgcccg	atcccttcat	gcagggtctcg	180
ccctttgacc	agggattcca	gcagaacgct	ctcatggagc	gtccgcagat	gccggccatg	240
ccagccatgg	gcctcttcgg	catgcccatt	atgccaaaact	ttaatcgctt	gttgaacgct	300
gatattgggtg	gcaattcagg	cgcatccttc	tgccagagca	ccgtgatgac	catgtcatcg	360
ggtcccgatg	ggcgctctca	gatctaccag	gccagcacta	gtaccaaaac	aggaccggga	420
ggcggttcgtg	agaccgcgag	gacgggtgcg	gactcgcgca	ctgggggtgaa	gaagatggcc	480
attggtcatc	acatcggcga	gcgggcacac	attattgaga	aagagcagga	catgcgctca	540
ggacaactgg	aggagcgcca	gga				563

<210> 55

<211> 763

<212> DNA

<213> Drosophila

<400> 55

aaaattcgag	caacagaaag	ccaacacaaat	ccacaaaaat	gtctttattc	ggagcgttga	60
tgggtgattt	cgacgacgat	ctcggcctta	tgaacaacca	catgaaccac	actatgaacg	120
cgatgaacat	gcagatgcgc	tcgatgaatc	gcctgatgaa	cagctttatg	cccgatccct	180
tcatgcagg	ctcgcccttt	gaccagggat	tccagcagaa	cgctctcatg	gagcgtccgc	240
agatgccggc	catgccagcc	atgggcctct	tcggcatgcc	catgatgcca	aactttaatc	300
gcctgttgaa	cgctgatatt	ggtggcaatt	caggcgcata	cttctgccag	agcaccgtga	360
tgaccatgtc	atcgggtccc	gatgggcgct	ctcagatcta	ccaggccagc	actagtacca	420
aaacaggacc	gggaggcggt	cgtgagaccc	gcaggacggt	gcaggactcg	cgcaactggg	480
tgaagaagat	ggccatttgt	catcacatcg	gcgagcgggc	acacattatt	gagaaagagc	540
aggacatgcg	ctcaggacaa	ctggaggagc	gccaggagtt	cattaatctg	gaggagggag	600
aagccgagca	gtttgacagg	gagttttacat	cgcgcgctag	tcgcggaggc	gtgcagtcaa	660
gacatcatgc	tgggtggcatg	caggccatca	tgcgcgcgcg	tccagcggca	cacacctcga	720
cgttgaccat	tgagccagtg	gaggacgacg	acgacgatga	tgc		763

<210> 56

<211> 709

<212> DNA

<213> Drosophila

<220>

<221> misc\_feature

<222> (1)...(709)

<223> n = A,T,C or G

<400> 56

agaagaaaat	tcgagcaaca	gaaagccaac	acaatccaca	aaaatgtctt	tattcggagc	60
gttgatgggt	gatttcgacg	acgatctcgg	ccttatgaac	aaccacatga	accacactat	120
gaacgcgatg	aacatgcaga	tgcgctcgat	gaatcgctcg	atgaacagct	ttatgccoga	180
tcccttcgat	caggtctcgc	cctttgacca	gggattccag	cagaacgctc	tcatggagcg	240
tccgcagatg	cgggccatgc	cagccatggg	cctcttcggc	atgcccatga	tgccaaactt	300
taatcgcttg	ttgaacgctg	atattgggtg	caattcaggc	gcatccttct	gccagagcac	360
cgtgatgacc	atgtcatcgg	gtcccgatgg	gcgtcctcag	atctaccagg	ccagcactag	420
taccaaaaaca	ggaccgggag	gcgttcgtga	gaccgcgagg	acgggtgcagg	actcgcgcac	480
tgggggtgaag	aagatggcca	ttggtcacat	catcggcgag	cgggcacaca	ttattgagaa	540
agagcaggac	atgcgctcag	gacaaactgga	ggagcgccag	gagttcatta	atctggagga	600
gggagaagcc	gagcagtttg	acagggagtt	tacatcgcg	gctagtcgcg	gagcgggtgca	660
gtcaagacat	catgctggtg	gcatgcatgc	catcatgccc	gnccgtcca		709

<210> 57

<211> 599

<212> DNA

<213> Drosophila

<400> 57

aaagaagaaa	attcgagcaa	cagaaagcca	acacaatcca	caaaaatgtc	tttattcggga	60
gcgttgatgg	gcgatttcga	cgacgatctc	ggccttatga	acaaccacat	gaaccacact	120
atgaacgcga	tgaacatgca	gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgccc	180
gatcccttca	tgcagggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggactcttcg	gcatgccc	gatgccaac	300
tttaatcgcc	tggtgaacgc	tgatattggt	ggcaattcag	gcgcacctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtaccaaga	caggaccggg	aggcggttcg	gagaccgcga	agacggtgca	ggactcgcgc	480
actgggggtga	agaagatggc	cattgggtcat	cacatcggcg	agcgggcaca	cattattgag	540
aaagagcagg	acatgcgctc	aggacaactg	gaggagcgcc	aggagttcat	taatctgga	599

<210> 58

<211> 608

<212> DNA

<213> Drosophila

<400> 58

aaagaagaaa	attcgagcaa	cagaaagcca	acacaatcca	caaaaatgtc	tttattcggga	60
gcgttgatgg	gcgatttcga	cgacgatctc	ggccttatga	acaaccacat	gaaccacact	120
atgaacgcga	tgaacatgca	gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgccc	180
gatcccttca	tgcagggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggactcttcg	gcatgccc	gatgccaac	300
tttaatcgcc	tggtgaacgc	tgatattggt	ggcaattcag	gcgcacctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtaccaaga	caggaccggg	aggcggttcg	gagaccgcga	agacggtgca	ggactcgcgc	480
actgggggtga	agaagatggc	cattgggtcat	cacatcggcg	agcgggcaca	cattattgag	540
aaagagcagg	acatgcgctc	aggacaactg	gaggagcgcc	aggagttcat	taatctgga	600
gagggaga						608

<210> 59

<211> 585

<212> DNA

<213> Drosophila

<400> 59

aaagaagaaa	attcgagcaa	cagaaagcca	acacaatcca	caaaaatgtc	tttattcggga	60
gcgttgatgg	gcgatttcga	cgacgatctc	ggccttatga	acaaccacat	gaaccacact	120
atgaacgcga	tgaacatgca	gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgccc	180

gatcccttca	tgcaggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggactottcg	gcatgcccac	gatgccaaac	300
tttaatcgcc	tgttgaacgc	tgatattggt	ggcaattcag	gcgcatacctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtaccaaga	caggaccggg	aggcgttcgt	gagacccgca	agacggtgca	ggactcgcgc	480
actggggtga	agaagatggc	cattggtcat	cacatcggcg	agcgggcaca	cattattgag	540
aaagagcagg	acatgcgctc	aggacaactg	gaggagcgcc	aggag		585

<210> 60  
 <211> 591  
 <212> DNA  
 <213> Drosophila

<400> 60						
aaagaagaaa	attcgagcaa	cagaaagcca	acacaatcca	caaaaatgtc	tttattcgga	60
gcgttgatgg	gtgatttcga	cgacgatctc	ggccttatga	acaaccacat	gaaccacact	120
atgaacgcga	tgaacatgca	gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgccc	180
gatcccttca	tgcaggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggccttctcg	gcatgcccac	gatgccaaac	300
tttaatcgcc	tgttgaacgc	tgatattggt	ggcaattcag	gcgcatacctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtacaaaaa	caggaccggg	aggcgttcgt	gagacccgca	ggacggtgca	ggactcgcgc	480
actggggtga	agaagatggc	cattggtcat	cacatcggcg	agcgggcaca	cattattgag	540
aaagagcagg	acatgcgctc	aggacaactg	gaggaacgcc	aggagtcat	t	591

<210> 61  
 <211> 657  
 <212> DNA  
 <213> Drosophila

<400> 61						
aaagaagaaa	attcgagcaa	cagaaagcca	acacaatcca	caaaaatgtc	tttattcgga	60
gcgttgatgg	gtgatttcga	cgacgatctc	ggccttatga	acaaccacat	gaaccacact	120
atgaacgcga	tgaacatgca	gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgccc	180
gatcccttca	tgcaggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggccttctcg	gcatgcccac	gatgccaaac	300
tttaatcgcc	tgttgaacgc	tgatattggt	ggcaattcag	gcgcatacctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtacaaaaa	caggaccggg	aggcgttcgt	gagacccgca	ggacggtgca	ggactcgcgc	480
actggggtga	agaagatggc	cattggtcat	cacatcggcg	agcgggcaca	cattattgag	540
aaagagcagg	acatgcgctc	aggacaactg	gaggagcgcc	aggagtcat	taatctggag	600
gagggagaaag	ccgagcagtt	tgacagggag	tttacatcgc	gcgctagtcg	cggagcgc	657

<210> 62  
 <211> 718  
 <212> DNA  
 <213> Drosophila

<220>  
 <221> misc\_feature  
 <222> (1)...(718)  
 <223> n = A,T,C or G

<400> 62						
gtgaaaattc	tgcatacggg	aagaagaaaa	ttcgagcaac	agaaagccaa	cacaatccac	60
aaaaatgtct	ttattcgagg	cggtgatggg	tgatttcgac	gacgatctcg	gccttatgaa	120
caaccacatg	aaccacacta	tgaacgcgat	gaacatgcag	atgcgctcga	tgaatcgctt	180
gatgaacagc	tttatgcccg	atcccttcat	gcaggtctcg	ccctttgacc	agggattcca	240
gcagaacgct	ctcatggagc	gtccgcagat	gccggccatg	ccagccatgg	gcctcttcgg	300
catgcccacg	atgccaaact	ttaatcgctt	gttgaacgct	gatattggtg	gcaattcagg	360
cgcatacctt	tgccagagca	ccgtgatgac	catgtcatcg	ggtcccgatg	ggcgtcctca	420

gatctaccag	gccagcacta	gtacccaaaac	aggaccggga	ggcgttcgtg	agacccgcag	480
gacgggtgcg	gactcgcgca	ctgggggtgaa	gaagatggcc	attgggtcatc	acatcggcga	540
gcggggcacac	attattgaga	aagagcagga	catgcgctca	ggacaactgg	aggagcgcca	600
ggagttcatt	aatctggagg	agggagaagc	cgagcagttt	gacagggagt	ttacatcgcg	660
cgctagtcgc	ggagcgggtc	agtcaagaca	tcatgctggt	ggcatgcang	ccatcatg	718

<210> 63  
 <211> 497  
 <212> DNA  
 <213> Drosophila

<400> 63						
atattcgtga	aaattctgca	tacggaaaga	agaaaattcg	agcaacagaa	agccaacaca	60
atccacaaaa	atgtctttat	toggagcggt	gatgggcat	ttcgacgacg	atctcggcct	120
tatgaacaac	cacatgaacc	acactatgaa	cgcgatgaac	atgcagatgc	gctcgtatgaa	180
tgcctgatg	aacagcttta	tgcccgatcc	cttcatgcag	gtctcgcctt	ttgaccaggg	240
attccagcag	aacgctctca	tggagcggtc	gcagatgccg	gccatgccag	ccatgggact	300
cttcggcatg	cccatgatgc	caaaacttta	tgcctgatg	aacgctgcta	ttggtgggaa	360
ttcaggcgca	tccttctgcc	agagcaccgg	gatgaccatg	tcctcgggtt	ccgatgggag	420
tgctcagatc	taccaggcca	gcactagttc	caagacagga	ccgggaggcg	ttcgtgagac	480
ccgcaagacg	gtgcagg					497

<210> 64  
 <211> 685  
 <212> DNA  
 <213> Drosophila

<400> 64						
aaaatattcg	tgaaaattct	gcatacggaa	agaagaaaat	tcgagcaaca	gaaagccaac	60
acaatccaca	aaaatgtctt	tattcggagc	gttgatgggt	gatttcgacg	acgatctcgg	120
ccttatgaac	aaccacatga	accacactat	gaacgcgatg	aacatgcaga	tcgctcgat	180
gaatcgccctg	atgaacagct	ttatgcccg	tccttcatg	caggtctcgc	cctttgacca	240
gggattccag	cagaacgctc	tcatggagcg	tcgcgagatg	ccggccatgc	cagccatggg	300
cctcttcggc	atgcccatga	tgccaaactt	taatcgccctg	ttgaacgctg	atattggtgg	360
caattcaggc	gcctccttct	gccagagcac	cgtgatgacc	atgtcatcgg	gtcccgatgg	420
ggtcctcag	atctaccagg	ccagcactag	taccaaaaca	ggaccgggag	gcgttcgtga	480
gacccgcagg	acggtgcagg	actcgcgcac	tgggggtgaag	aagatggcca	ttggtcatca	540
catcgccgag	cgggcacaca	ttattgagaa	agagcaggac	atgcgctcag	gacaactgga	600
ggagcgccag	gagttcatta	atctggagga	gggagaagcc	gagcagtttg	acagggagtt	660
tacatcgcg	gctagtcgcg	gagcg				685

<210> 65  
 <211> 540  
 <212> DNA  
 <213> Drosophila

<400> 65						
aaagaaaata	ttcgtgaaaa	ttctgcatac	ggaaagaaga	aaattcgagc	aacagaaagc	60
caacacaatc	cacaaaaatg	tctttattcg	gagcgttgat	gggtgatttc	gacgacgatc	120
tcggccttat	gaacaaccac	atgaaccaca	ctatgaacgc	gatgaacatg	cagatgcgct	180
cgatgaatcg	cctgatgaac	agctttatgc	ccgatccctt	catgcaggtc	tcgccctttg	240
accagggatt	ccagcacgaa	cgctctcatg	gagcgtccgc	agatgccggc	catgcagcca	300
tgggcctctt	cggcatgcca	tgatgccaac	tttaatcgcc	tggtgaacgc	tgatattggt	360
ggcaattcag	gcgcatcctt	ctgccagagc	accgtgatga	ccatgtcatc	gggtcccgat	420
gggcggctct	cagatctacc	aggccagcac	tagtaccaaa	acaggaccgg	gaggcggtcg	480
tgagacccgc	agaacgggtc	aggactcgcg	cactgggggtg	aagaagatgg	gcattggtca	540

<210> 66  
 <211> 681  
 <212> DNA  
 <213> Drosophila

<400> 66  
 acaaagaaaa tattctgtgaa aattctgcat acggaaagaa gaaaattcga gcaacagaaa 60  
 gccaacacaa tccacaaaaa tgtcttttatt cggagcgttg atgggtgatt tcgacgacga 120  
 tctcggcctt atgaacaacc acatgaacca cactatgaac gcgatgaaca tgcagatgcg 180  
 ctcgatgaat cgctgatga acagctttat gcccgatccc ttcattgcagg tctcggcctt 240  
 tgaccaggga ttccagcaga acgctctcat ggagcgtccg cagatgccgg ccatgccagc 300  
 catgggcctc ttccgcatgc ceatgatgcc aaactttaat cgcctgttga acgctgatat 360  
 tgggtggcaat tcaggcgcga ccttctgccg gagcaccgtg atgaccatgt catcgggtcc 420  
 cgatgggcgt cctcagatct accaggccag cactagtacc aaaacaggac cgggaggcgt 480  
 tcgtgagacc cgcaggacgg tgcaggactc gcgcactggg gtgaagaaga tggccatttg 540  
 tcatcacatc ggcgagcggg cacacattat tgagaaagag caggacatgc gctcaggaca 600  
 actggaggag cgccaggagt tcattaatct ggaggaggga gaagccgagc agtttgacag 660  
 ggagtttaca tcgcgcgcta g 681

<210> 67  
 <211> 675  
 <212> DNA  
 <213> Drosophila

<400> 67  
 tgacaaagaa aatattcgtg aaaatctgca tacggaaaga ggaaaattcg agccacagaa 60  
 agccaccaca atccacaaaa atgtctttat tcggagcgtt gatgggtgat ttcgacgacg 120  
 atctcggcct tatgaacaac cacatgaacc acactatgaa cgcgatgaac atgcagatgc 180  
 gctcgatgaa tcgcctgatg aacagcttta tgcccgatcc cttcatgcag gtctcggcct 240  
 ttgaccaggg attccagcag aacgctctca tggagcgtcc gcagatgccg gccatgccag 300  
 ccattggcct cttcggcatg cccatgatgc caaactttaa tcgcctgttg aacgctgata 360  
 ttggtggcaa ttcaggcgca tcttctgcc agagcaccgt gatgaccatg tcatcgggtc 420  
 ccgatgggcg tctcagatc taccaggcca gcactagtac caaacagga cgggaggcgg 480  
 ttctgtgagac ccgcaagacg gtgcaggact cgcgcactgg ggtgaagaag atggccattg 540  
 gtcatcacat cggcgagcgg gcacacatta ttgagaaaga gcaggacatg cgctcaggac 600  
 aactggagga gcgcaggagt tcattaatct ggaggaggga gaagcgagca gtttgacag 660  
 gagtttacat cgcgc 675

<210> 68  
 <211> 627  
 <212> DNA  
 <213> Drosophila

<400> 68  
 tgacaaagaa aatattcgtg aaaattctgc atacggaaag aagaaaattc gagcaacaga 60  
 aagccaacac aatccacaaa aatgtcttta ttccgagcgt tgatggcgga tttcgacgac 120  
 gatctcggcc ttatgaacaa ccacatgaac cacactatga acgcgatgaa catgcagatg 180  
 cgctcgatga atcgctgat gaacagcttt atgcccgate cttcatgca ggtctcggcc 240  
 tttgaccagg gattccagca gaacgctctc atggagcgtc cgcagatgcc ggccatgcc 300  
 gccatgggac tcttcggcat gcccatgatg ccaaacttta atcgctgtt gaacgctgat 360  
 attggtggca attcaggcgc atccttctgc cagagcaccg tgatgaccat gtcacgggt 420  
 cccgatgggc gtctcagat ctaccaggcc agcactagta ccaagacagg accgggaggc 480  
 gttcgtgaga cccgcaagac ggtgcaggac tcgcgcactg ggggtgaaga gatggccatt 540  
 ggtcatcaca tcggcgagcg ggcacacatt attgagaaag agcaggacat gcgctcagga 600  
 caactggagg agcgccagga gttcatt 627

<210> 69  
 <211> 686  
 <212> DNA  
 <213> Drosophila

<400> 69  
 ggcacgagaa agaaaatatt cgtgaaaatt ctgcatacgg aaagaagaaa attcgagcaa 60  
 cagaaagcca acacaatcca caaaaatgtc tttattcggg gcgttgatgg gtgatttcga 120  
 cgacgatctc ggccttatga acaaccacat gaaccacact atgaacgcga tgaacatgca 180

gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgcc	gatcccttca	tgcaggtctc	240
gccctttgac	cagggattcc	agcagaacgc	tctcatggag	gtccgcagat	gccggccatg	300
cagccatggg	cctcttcggc	atgcccatga	tgccaaactt	taatcgctg	ttgaacgctg	360
atattggtgg	caattcaggc	gcctccttct	gccagagcac	cgtgatgacc	atgtcatcgg	420
gtcccgatgg	gctgtcctca	gatctaccag	gccagcacta	gtaccaaaac	aggaccggga	480
ggcgttcgtg	agaccgcgag	atcggtgcag	gactcgcgca	ctggggtgaa	gaagatggcc	540
attggtcatc	acatcggcga	gcgggcacac	attattgaga	aagagcagga	catgcgctca	600
ggacaactgg	aggagcgcca	ggagttcatt	aatctggagg	agggagaagc	cgagcagttt	660
gacagggagt	ttacatcgcg	cgctag				686